

## ACCESSORIES: ELBOW / **GRS-GUIDE RAIL SYSTEMS**

Pump can be installed with 90° Elbow with Flange outlet or GRS quick coupling system, for quick and safer for installation, removal, replacement and maintenance purpose.

## PRODUCT FEATURES



#### Epoxy Cable Base

An epoxy resin seal cable base prevents moisture from entering the motor through the core wires.



#### Auto-cut Protector

Automatic On/Off motor protector to prevent motor burn out due to high temperature and excess amperage draw.



**ELBOW** 

#### Double Mechanical Seals

Superior abrasion resistant mechanical seal manufactured with silicon carbide to ensure the best seal effect.



#### High Efficiency Dry Motors

All stator coils need to be treated with insulating varnish procedure to achieving the best insulation, efficiency and durability.





Distributor:

DFNEN5-1608



HCP

**HCP PUMP** 



SUBMERSIBLE SEWAGE **EFFLUENT PUMPS** 

We reserve the right to alter specifications of product at any time without giving prior notice.

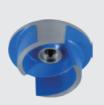


## FN

## **FEATURES**

- A precision manufactured motor is achieved by utilizing the highest standard of quality control. All rotors adopt heat treatment methods for drive shaft assembling, and stator winding impregnated with varnish that is heat dried in an industrial oven. The Water Resistance for Pump can reach IP68 Grade.
- HCP's professional assembly line, complimented with a synthesized production test, ensures the highest
- Standard accessories include: cable with an epoxy resin sealed water-resistant cable base, Auto-cut Protector, dual mechanical seals and lip seal design.





#### P Type Impeller Semi-open(Single or Two Vane):

Excellent to use with waste materials to prevent from clogging.



#### U Type Impeller Semi-open (Vortex Impeller):

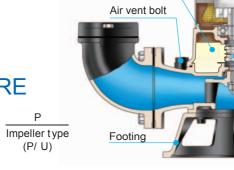
Produces a vortex (whirpool effect) allowing long fibrous materials and other solid waste to pass through, without contact with the impeller.

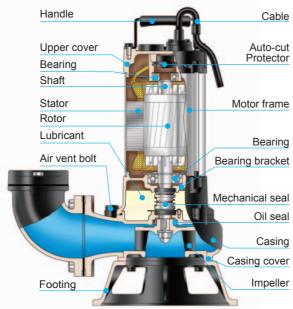
### **APPLICATIONS**

- Drainage of sewage from the building basements, hotel industry, and waste water from factories.
- Drainage of sewage from industrial process factories.
- Emptying of septic tanks,cesspits and sewage pump stations.
- Pumping surface and drainage water from garages and sprinkler systems.

# **PRODUCT NOMENCLATURE**

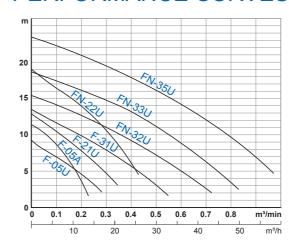
Discharge HP

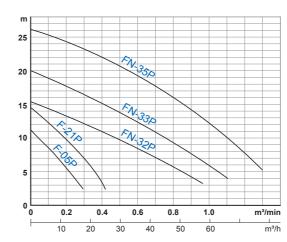






#### PERFORMANCE CURVES





#### **SPECIFICATIONS**

	Item	Description					
Limits Of Use	Liquid Temp.	0~40°C (32~104°F)					
	Applications	General wastewater • Sewage water and Industrial waster					
Туре	Frequency	50Hz					
	Motor	2P (3000rpm) • Dry Motor (F-05A: Oil Motor)					
	Insulation	Class B(0.5HP~3HP) • Class F(5HP)					
	Protection	IP68					
	Protector	Auto-cut Protector (F-05A/05U/05P 1Ø:Thermal)					
	Bearing	Ball Type					
	M.seal	Double M.seals (F-05A : Single M.seals)					
	Impeller	Semi-open					
Material	Upper Cover	FC200					
	Motor Frame	SUS304					
	Shaft	SUS410(0.5~1HP) • SUS403 (2~5HP)					
	M.seal	Upper : Carbon/Ceramic Lower : Silicon/Silicon (F-05A : Carbon/Ceramic)					
	Casing	FC200					
	Impeller	FC200 (F-05A:PA)					
	Cable	VCT or H07RN-F or SJOW/SOW					
	Optional	Pumps can be customized to fit specifications					

## PERFORMANCE SPECS.

Note: Weight Without Cable & Elbow Set.

		Output	Discharge Inch(mm)		Start Method	Head m	Standard		Solid	Weight kg		Dimensions mm					
	Model	HP(kW)					m³/min	m³/h	Passage mm	1Ø	3Ø	Α	В	С	[ 1Ø	3Ø	
UType	F-05A	0.5 (0.4)	2" (50)	1	Capacitor	8	0.1	6	10	12	-	225	-	161	349	-	
	F-05U	0.5 (0.4)	2" (50)	1	Capacitor Direct	6	0.15	9	35	16	15	237	-	154	425	425	١.
	F-21U	1 (0.75)	2" (50)	1 3	Capacitor Direct	8	0.2	12	35	17	16	237	-	154	425	425	
	F-31U	1 (0.75)	3" (80)	1	Capacitor Direct	6.5	0.3	18	30	18	17	278	-	173	456	456	
	FN-22U	2 (1.5)	2" (50)	3	Capacitor Direct	14	0.2	12	35	30	25	288	-	202	546	477	
	FN-32U	2 (1.5)	3" (80)	3	Capacitor Direct	8.5	0.4	24	50	32	28	402	260	202	588	519	
	FN-33U	3 (2.2)	3" (80)	1 3	Capacitor Direct	12.5	0.4	24	50	35	30	402	260	202	600	519	
	FN-35U	5 (3.7)	3" (80)	3	Direct	16.5	0.5	30	50	-	33	453	260	202	-	539	
P Type	F-05P	0.5 (0.4)	2" (50)	1 3	Capacitor Direct	5.5	0.2	12	22	16	15	276	238	235	459	459	
	F-21P	1 (0.75)	2" (50)	3	Capacitor Direct	9	0.2	12	26	18	17	276	-	235	459	459	
	FN-32P	2 (1.5)	3" (80)	3	Capacitor Direct	8.5	0.6	36	35	34	30	417	275	260	590	521	
	FN-33P	3 (2.2)	3" (80)	3	Capacitor Direct	12.5	0.6	36	35	37	32	417	275	260	602	521	\
	FN-35P	5 (3.7)	3" (80)	3	Direct	19	0.6	36	35	-	35	468	275	260	-	541	

